

URGENT

Non-Potable Water

TCEQ CHEMICAL ANALYSIS LABORATORY REPORT

TEXAS COMMISSION on  
ENVIRONMENTAL QUALITY (TCEQ)

P. O. BOX 13087  
AUSTIN, TEXAS 78711-3087

Handling Instructions: ☐ Routine ☒ Urgent ☐ Priority (short half-life)  
Purpose: ☐ Close Out/Groundwater Restoration ☐ Baseline (Pre-Operation) ☒ Compliance  
Sample Collected From: ☐ Unrestricted Area ☒ Restricted/Controlled Area  
☒ Radiological Analysis Also Performed PCA # \_\_\_\_\_ Index No \_\_\_\_\_  
Water only: ☒ Acidified ☐ Filtered  
☒ Not Acidified ☒ Not Filtered

Contact: M. Abbaszadeh  
Phone/MC: (512) 239-6078  
Submitter No. M0000070

Suspected Radionuclides: Uranium

Type: ☐ Soil  
☐ Sediment  
☐ Vegetation  
☐ Wipe  
☐ Other \_\_\_\_\_

Type: Water  
☒ Monitor Well  
☐ Baseline Well  
☐ Surface Water  
☐ Other \_\_\_\_\_

Facility Category: ☒ Uranium Recovery ☐ Waste Processing  
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste  
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material  
☐ Other \_\_\_\_\_

Radiation Survey Results: BKG: 5.6 uR/hr Sample: BKG  
Sample Number 3 of 9  
Sample location PAA3, MW-AA-25  
Operator / Facility URS, Kingsville Dome  
Permit/License No UR02827  
Notes \_\_\_\_\_

INDICATE THE REQUIRED ANALYSIS BELOW

☒ Total Analysis ☐ TCLP ☐ Dissolved Analysis  
Detection Limit Requested \_\_\_\_\_

I certify this sample was collected by me at 10:29 AM  
on 11/13/14 and remained in my custody until  
transfer to DSHS Lab  
at 11:14 AM on 11/14/14  
Signature: M. Abbaszadeh

I certify this sample was constantly in my custody from the time of  
receipt listed hereon until transferred to Inorganic Lab  
at 11:40 AM on 11-14-14  
Signature: Ante Vodgano

I certify this sample was constantly in my custody from the time of  
receipt listed hereon until transferred to \_\_\_\_\_  
at \_\_\_\_\_ : \_\_\_\_\_ M on \_\_\_\_\_  
Signature: \_\_\_\_\_

FOR USE BY LABORATORY ONLY

Laboratory Identification No. AC72075 A  
Date Received EU 11/14/2014  
Condition of Seals ☐ S MISC INORGANIC  
Comments \_\_\_\_\_  
Wet (as received) Weight \_\_\_\_\_  
Dry Weight \_\_\_\_\_ Ash Weight \_\_\_\_\_  
Notes \_\_\_\_\_

I certify this sample was constantly in the laboratory custody from the time  
of receipt and after the report date listed below until transferred to the  
TCEQ staff.

Report Date/Signature DEC - 9 2014 mp

Arsenic	_____ mg/
Barium	_____ mg/
Boron	_____ mg/
Cadmium	_____ mg/
Calcium	_____ mg/
Chromium	_____ mg/
Copper	_____ mg/
Iron	_____ mg/
Lead	_____ mg/
Magnesium	_____ mg/
Manganese	_____ mg/
Mercury	_____ mg/
Molybdenum	_____ mg/
Nickel	_____ mg/
Potassium	_____ mg/
Selenium	_____ mg/
Silver	_____ mg/
Sodium	_____ mg/
Vanadium	_____ mg/
Zinc	_____ mg/

<u>Uranium</u>	<u>ma</u> <u>11/14/14</u>
TDS	_____ mg/
Alkalinity	_____ mg/
Ammonia-N	_____ mg/
Bicarbonate	_____ mg/
Carbonate	_____ mg/
Chloride	_____ mg/
Fluoride	_____ mg/
Nitrate-N	_____ mg/
Silica	_____ mg/
Sulfate	_____ mg/

Conductivity	_____ $\mu$ S/cm
Specific Conductance	_____ $\mu$ S/cm
pH	_____ Std. Unit

Sample Kept on ice from time  
of collection and during  
transfer to DSHS Lab.

mp 11/14/14

# Texas Department of State Health Services

1100 West 49th St. Austin,  
Texas 78756

## Analysis Report, Inorganic Chemistry

(512) 458-7587 Fax  
(512) 458-7587

DSHS Sample Number: AC72075

Central File Number: Not Provided

Date Sampled: 11/13/2014

Date Laboratory Received: 11/14/2014

Time Sampled: 10:29

Time Received: 11:14

Analysis		Result	Unit	Method	Date and Time of Analysis		Analyst
1	TDS	1610	mg/L	S.M. 2540C	11/14/2014	15:51	BI
2	<sup>A</sup> Total Alkalinity	150	mg/L	S.M. 2320B	11/18/2014	16:17	LJA
3	*Bicarbonate	<2	mg/L	S.M. 2320B	11/18/2014	16:17	LJA
4	*Carbonate	<2	mg/L	S.M. 2320B	11/18/2014	16:17	LJA
5	Chloride	395	mg/L	EPA 300.0	11/18/2014	16:32	LJA
6	Fluoride	0.39	mg/L	EPA 300.0	11/14/2014	19:07	LJA
7	Nitrate - N	<0.01	mg/L	EPA 353.2	11/14/2014	13:59	BF
8	Sulfate	663	mg/L	EPA 300.0	11/18/2014	16:32	LJA
9	Specific Conductance	3130	μS/cm	S.M. 2510B	11/14/2014	14:30	BI

Comment: The test results on this report relate only to the sample identified on this report.

\* = Calculated

<sup>A</sup> = As CaCO<sub>3</sub>

Results reviewed by:



Lorraine Archer  
Team Leader, Drinking Water

12/9/14

Date

Date reported:

DEC - 9 2014 <sup>wp</sup>

Report ID: 20141209PWAAC72075

**Texas Department of State Health Services**  
**Environmental Sciences Division**  
**Quality Assurance Report**

Sample Number: AC72075

Date Collected: 11/13/2014

Date Received: 11/14/2014

\*Result Calculated

ND = Not Detected

NA = Not Applicable

**Quality Control Results**

Analyte	Analysis Date	Analytical Method	Blank Results mg/L	Blank Acceptance Limits mg/L	IPC Recovery %	IPC Limits %	Laboratory Matrix Spike Recovery %	Laboratory Matrix Spike Acceptance Limits %	Duplicate RPD %	Duplicate Acceptance Limits %	IPC/QCS Recovery %	IPC/QCS Acceptance Limits %
TDS	11/14/2014	S.M. 2540C	<10	±10	100	90-110	104	99-113	5.38	8.57	99.0	90-110
Total Alkalinity	11/18/2014	S.M. 2320B	<2	±2	97.3	80-120	97.7	80-120	0	20	99.2	80-120
*Bicarbonate		S.M. 2320B										
*Carbonate		S.M. 2320B										
Chloride	11/18/2014	EPA 300.0	ND	≤0.05	107	90-110	90	80-120	0	20	107	90-110
Fluoride	11/14/2014	EPA 300.0	ND	≤0.05	102	90-110	103	80-120	11.4	20	102	90-110
Nitrate – N	11/14/2014	EPA 353.2	<0.01	±0.01	106	101-110	104	90-110	1.5	4	108	98-110
Sulfate	11/18/2014	EPA 300.0	ND	≤0.05	104	90-110	101	80-120	0.40	20	104	90-110
Specific Conductance	11/14/2014	S.M. 2510B	<1	≤1	97.3	80-120	99.8	80-120	0.64	20	94.2	80-120

I am the laboratory group leader, or his/her designee, and I am responsible for the release of this data package. I affirm that this data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached deficiency reports. I further affirm to the best of my knowledge that all problems/anomalies observed by this laboratory, or if applicable, any and all subcontracted laboratories, that might affect the quality of the data have been identified in the laboratory review checklist, and no information or data have been withheld that would affect the quality of the data.

Signed: 

Printed Name: Lorraine Archer

Date: 12/09/2014

Report ID: 20141209PWAAC72075

! URGENT

Non-Potable Water

TCEQ CHEMICAL ANALYSIS LABORATORY REPORT

TEXAS COMMISSION on  
ENVIRONMENTAL QUALITY (TCEQ)

P. O. BOX 13087  
AUSTIN, TEXAS 78711-3087

Handling Instructions: ☐ Routine ☒ Urgent ☐ Priority (short half-life)  
Purpose: ☐ Close Out/Groundwater Restoration ☐ Baseline (Pre-Operation) ☒ Compliance  
Sample Collected From: ☐ Unrestricted Area ☒ Restricted/Controlled Area  
☒ Radiological Analysis Also Performed PCA # \_\_\_\_\_ Index No \_\_\_\_\_  
Water only: ☒ Acidified ☐ Filtered  
☒ Not Acidified ☒ Not Filtered

Contact: M. Abbas Zadeh  
Phone/MC: (512) 239-6078  
Submitter No. M0000070 12

Suspected Radionuclides: Uranium

Type: ☐ Soil  
☐ Sediment  
☐ Vegetation  
☐ Wipe  
☐ Other \_\_\_\_\_

Type: Water  
☒ Monitor Well  
☐ Baseline Well  
☐ Surface Water  
☐ Other \_\_\_\_\_

Facility Category: ☒ Uranium Recovery ☐ Waste Processing  
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste  
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material  
☐ Other \_\_\_\_\_

Radiation Survey Results: BKG: 5.6 uR/hr Sample: BKG  
Sample Number 6 of 9  
Sample location PAA3, MW-AA-30  
Operator / Facility URS, Kingsville Dome  
Permit/License No UR02827  
Notes \_\_\_\_\_

INDICATE THE REQUIRED ANALYSIS BELOW  
☒ Total Analysis ☐ TCLP ☐ Dissolved Analysis

Detection Limit Requested \_\_\_\_\_

Arsenic	_____ mg/
Barium	_____ mg/
Boron	_____ mg/
Cadmium	_____ mg/
Calcium	_____ mg/
Chromium	_____ mg/
Copper	_____ mg/
Iron	_____ mg/
Lead	_____ mg/
Magnesium	_____ mg/
Manganese	_____ mg/
Mercury	_____ mg/
Molybdenum	_____ mg/
Nickel	_____ mg/
Potassium	_____ mg/
Selenium	_____ mg/
Silver	_____ mg/
Sodium	_____ mg/
Vanadium	_____ mg/
Zinc	_____ mg/

I certify this sample was collected by me at 12:00 P.M.  
on 11/13/14 and remained in my custody until  
transfer to DSHS Lab  
at 11:14 A.M. on 11/14/14  
Signature: M. Abbas Zadeh

I certify this sample was constantly in my custody from the time of  
receipt listed hereon until transferred to Inorganic Lab  
at 11:40 A.M. on 11-14-14  
Signature: Anta V. Rodriguez

I certify this sample was constantly in my custody from the time of  
receipt listed hereon until transferred to \_\_\_\_\_  
at \_\_\_\_\_ : \_\_\_\_\_ M on \_\_\_\_\_  
Signature: \_\_\_\_\_

FOR USE BY LABORATORY ONLY

Laboratory Identification No. AC72078 A  
Date Received 11/14/2014  
Condition of Seals ☐ S: EU  
Comments MISC INORGANIC  
Wet (as received) Weight \_\_\_\_\_  
Dry Weight \_\_\_\_\_ Ash Weight \_\_\_\_\_  
Notes \_\_\_\_\_

TDS	_____ mg/
Alkalinity	_____ mg/
Ammonia-N	_____ mg/
Bicarbonate	_____ mg/
Carbonate	_____ mg/
Chloride	_____ mg/
Fluoride	_____ mg/
Nitrate-N	_____ mg/
Silica	_____ mg/
Sulfate	_____ mg/

Conductivity \_\_\_\_\_  $\mu$ S/cm  
Specific Conductance \_\_\_\_\_  $\mu$ S/cm  
pH \_\_\_\_\_ Std. Unit

I certify this sample was constantly in the laboratory custody from the time  
of receipt and after the report date listed below until transferred to the  
TCEQ staff.

Report Date/Signature DEC - 9 2014 mr

Sample Kept on ice from time  
of collection and during  
transfer to DSHS Lab  
MA 11/14/14

# Texas Department of State Health Services

1100 West 49th St. Austin,  
Texas 78756

## Analysis Report, Inorganic Chemistry

(512) 458-7587 Fax  
(512) 458-7587

DSHS Sample Number: AC72078

Central File Number: Not Provided

Date Sampled: 11/13/2014

Date Laboratory Received: 11/14/2014

Time Sampled: 12:00

Time Received: 11:14

	Analysis	Result	Unit	Method	Date and Time of Analysis		Analyst
1	TDS	1810	mg/L	S.M. 2540C	11/14/2014	15:51	BI
2	<sup>A</sup> Total Alkalinity	151	mg/L	S.M. 2320B	11/18/2014	16:25	LJA
3	*Bicarbonate	<2	mg/L	S.M. 2320B	11/18/2014	16:25	LJA
4	*Carbonate	<2	mg/L	S.M. 2320B	11/18/2014	16:25	LJA
5	Chloride	418	mg/L	EPA 300.0	11/18/2014	16:44	LJA
6	Fluoride	0.42	mg/L	EPA 300.0	11/14/2014	19:19	LJA
7	Nitrate - N	<0.01	mg/L	EPA 353.2	11/14/2014	14:00	BF
8	Sulfate	674	mg/L	EPA 300.0	11/18/2014	16:44	LJA
9	Specific Conductance	3150	μS/cm	S.M. 2510B	11/14/2014	14:30	BI

Comment: The test results on this report relate only to the sample identified on this report.

\* = Calculated

<sup>A</sup> = As CaCO<sub>3</sub>

Results reviewed by:



Lorraine Archer  
Team Leader, Drinking Water

12/9/14

Date

Date reported:

DEC - 9 2014 <sup>mp</sup>

Report ID: 20141209PWAAC72078

**Texas Department of State Health Services**  
**Environmental Sciences Division**  
**Quality Assurance Report**

Sample Number: AC72078

Date Collected: 11/13/2014

Date Received: 11/14/2014

\*Result Calculated

ND = Not Detected

NA = Not Applicable

**Quality Control Results**

Analyte	Analysis Date	Analytical Method	Blank Results mg/L	Blank Acceptance Limits mg/L	IPC Recovery %	IPC Limits %	Laboratory Matrix Spike Recovery %	Laboratory Matrix Spike Acceptance Limits %	Duplicate RPD %	Duplicate Acceptance Limits %	IPC/QCS Recovery %	IPC/QCS Acceptance Limits %
TDS	11/14/2014	S.M. 2540C	<10	±10	100	90-110	104	99-113	5.38	8.57	99.0	90-110
Total Alkalinity	11/18/2014	S.M. 2320B	<2	±2	97.3	80-120	97.7	80-120	0	20	99.2	80-120
*Bicarbonate		S.M. 2320B										
*Carbonate		S.M. 2320B										
Chloride	11/18/2014	EPA 300.0	ND	≤0.05	107	90-110	90	80-120	0	20	107	90-110
Fluoride	11/14/2014	EPA 300.0	ND	≤0.05	102	90-110	103	80-120	11.4	20	102	90-110
Nitrate – N	11/14/2014	EPA 353.2	<0.01	±0.01	106	101-110	104	90-110	1.5	4	108	98-110
Sulfate	11/18/2014	EPA 300.0	ND	≤0.05	104	90-110	101	80-120	0.40	20	104	90-110
Specific Conductance	11/14/2014	S.M. 2510B	<1	≤1	96.9	80-120	94.2	80-120	0.64	20	96.2	80-120

I am the laboratory group leader, or his/her designee, and I am responsible for the release of this data package. I affirm that this data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached deficiency reports. I further affirm to the best of my knowledge that all problems/anomalies observed by this laboratory, or if applicable, any and all subcontracted laboratories, that might affect the quality of the data have been identified in the laboratory review checklist, and no information or data have been withheld that would affect the quality of the data.

Signed: 

Printed Name: Lorraine Archer

Date: 12/09/2014

Report ID: 20141209PWAAC72078

! URGE!

# Non-Potable Water

## TCEQ CHEMICAL ANALYSIS LABORATORY REPORT

TEXAS COMMISSION on  
ENVIRONMENTAL QUALITY (TCEQ)

P. O. BOX 13087  
AUSTIN, TEXAS 78711-3087

Handling Instructions: ☐ Routine ☒ Urgent ☐ Priority (short half-life)  
Purpose: ☐ Close Out/Groundwater Restoration ☐ Baseline (Pre-Operation) ☒ Compliance  
Sample Collected From: ☐ Unrestricted Area ☒ Restricted/Controlled Area  
☒ Radiological Analysis Also Performed PCA # \_\_\_\_\_ Index No \_\_\_\_\_  
Water only: ☒ Acidified ☐ Filtered  
☒ Not Acidified ☒ Not Filtered

Contact: M. Abbaszadeh  
Phone/MC: (512) 239-6078/  
Submitter No. MO000070 127

Suspected Radionuclides: uranium

Type: ☐ Soil ☐ Sediment ☐ Vegetation ☐ Wipe ☐ Other \_\_\_\_\_  
Type: Water ☒ Monitor Well ☐ Baseline Well ☐ Surface Water ☐ Other \_\_\_\_\_

Facility Category: ☒ Uranium Recovery ☐ Waste Processing  
☐ Low Level Radioactive Waste/Material ☐ Buried Radioactive Waste  
☐ Mixed Waste Treatment Facility ☐ By-Product Waste/Material  
☐ Other \_\_\_\_\_

Radiation Survey Results: BKG: 5.6 uR/hr Sample: BKG  
Sample Number 9 of 9  
Sample location PAA3, MW-86  
Operator / Facility URL, Kingsville Dome  
Permit/License No UR02827  
Notes \_\_\_\_\_

### INDICATE THE REQUIRED ANALYSIS BELOW

☐ Total Analysis ☐ TCLP ☐ Dissolved Analysis

### Detection Limit Requested

Arsenic	_____ mg/
Barium	_____ mg/
Boron	_____ mg/
Cadmium	_____ mg/
Calcium	_____ mg/
Chromium	_____ mg/
Copper	_____ mg/
Iron	_____ mg/
Lead	_____ mg/
Magnesium	_____ mg/
Manganese	_____ mg/
Mercury	_____ mg/
Molybdenum	_____ mg/
Nickel	_____ mg/
Potassium	_____ mg/
Selenium	_____ mg/
Silver	_____ mg/
Sodium	_____ mg/
Vanadium	_____ mg/
Zinc	_____ mg/

I certify this sample was collected by me at 2:25 PM  
on 11/13/14 and remained in my custody until  
transfer to DSHS Lab  
at 11:14 AM on 11/14/14  
Signature: M. Abbaszadeh

I certify this sample was constantly in my custody from the time of  
receipt listed hereon until transferred to Inorganic Lab  
at 11:40 AM on 11-14-14  
Signature: Anta Valdez

I certify this sample was constantly in my custody from the time of  
receipt listed hereon until transferred to \_\_\_\_\_  
at \_\_\_\_\_ : \_\_\_\_\_ M on \_\_\_\_\_  
Signature: \_\_\_\_\_

### FOR USE BY LABORATORY ONLY

Laboratory Identification No. AC72081 A  
Date Received 11/14/2014  
Condition of Seals ☐ S. MISC INORGANIC  
Comments \_\_\_\_\_  
Wet (as received) Weight \_\_\_\_\_  
Dry Weight \_\_\_\_\_ Ash Weight \_\_\_\_\_  
Notes \_\_\_\_\_

I certify this sample was constantly in the laboratory custody from the time  
of receipt and after the report date listed below until transferred to the  
TCEQ staff.

Report Date/Signature DEC - 9 2014 mlp

TDS	_____ mg/
Alkalinity	_____ mg/
Ammonia-N	_____ mg/
Bicarbonate	_____ mg/
Carbonate	_____ mg/
Chloride	_____ mg/
Fluoride	_____ mg/
Nitrate-N	_____ mg/
Silica	_____ mg/
Sulfate	_____ mg/

Conductivity \_\_\_\_\_  $\mu$ S/cm  
Specific Conductance \_\_\_\_\_  $\mu$ S/cm  
pH \_\_\_\_\_ Std. Unit

Sample Kept on ice from  
time of collection and  
during transfer to DSHS Lab  
mla 11/14/14

# Texas Department of State Health Services

1100 West 49th St. Austin,  
Texas 78756

## Analysis Report, Inorganic Chemistry

(512) 458-7587 Fax  
(512) 458-7587

DSHS Sample Number: AC72081

Central File Number: Not Provided

Date Sampled: 11/13/2014

Date Laboratory Received: 11/14/2014

Time Sampled: 14:25

Time Received: 11:14

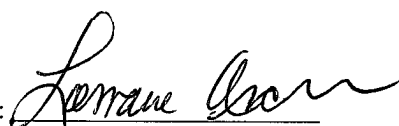
Analysis		Result	Unit	Method	Date and Time of Analysis		Analyst
1	TDS	1160	mg/L	S.M. 2540C	11/14/2014	15:51	BI
2	<sup>A</sup> Total Alkalinity	204	mg/L	S.M. 2320B	11/18/2014	16:33	LJA
3	*Bicarbonate	<2	mg/L	S.M. 2320B	11/18/2014	16:33	LJA
4	*Carbonate	<2	mg/L	S.M. 2320B	11/18/2014	16:33	LJA
5	Chloride	278	mg/L	EPA 300.0	11/21/2014	15:10	LJA
6	Fluoride	0.57	mg/L	EPA 300.0	11/18/2014	13:21	LJA
7	Nitrate - N	2.02	mg/L	EPA 353.2	11/14/2014	14:02	BF
8	Sulfate	341	mg/L	EPA 300.0	11/21/2014	15:10	LJA
9	Specific Conductance	2120	μS/cm	S.M. 2510B	11/14/2014	14:30	BI

Comment: The test results on this report relate only to the sample identified on this report.

\* = Calculated

<sup>A</sup> = As CaCO<sub>3</sub>

Results reviewed by:



Lorraine Archer  
Team Leader, Drinking Water

12/9/14  
Date

Date reported:

DEC - 9 2014 <sup>mm</sup>

Report ID: 20141209PWAAC72081



**Texas Department of State Health Services**  
**Environmental Sciences Division**  
**Quality Assurance Report**

Sample Number: AC72081

Date Collected: 11/13/2014

Date Received: 11/14/2014

\*Result Calculated

ND = Not Detected

NA = Not Applicable

**Quality Control Results**

Analyte	Analysis Date	Analytical Method	Blank Results mg/L	Blank Acceptance Limits mg/L	IPC Recovery %	IPC Limits %	Laboratory Matrix Spike Recovery %	Laboratory Matrix Spike Acceptance Limits %	Duplicate RPD %	Duplicate Acceptance Limits %	IPC/QCS Recovery %	IPC/QCS Acceptance Limits %
TDS	11/14/2014	S.M. 2540C	<10	±10	100	90-110	104	99-113	5.38	8.57	99.0	90-110
Total Alkalinity	11/18/2014	S.M. 2320B	<2	±2	97.3	80-120	97.7	80-120	0	20	99.2	80-120
*Bicarbonate		S.M. 2320B										
*Carbonate		S.M. 2320B										
Chloride	11/21/2014	EPA 300.0	ND	≤0.05	107	90-110	103	80-120	0.24	20	107	90-110
Fluoride	11/18/2014	EPA 300.0	ND	≤0.05	101	90-110	100	80-120	5.26	20	102	90-110
Nitrate – N	11/14/2014	EPA 353.2	<0.01	±0.01	106	101-110	104	90-110	1.5	4	108	98-110
Sulfate	11/21/2014	EPA 300.0	ND	≤0.05	104	90-110	107	80-120	0	20	104	90-110
Specific Conductance	11/14/2014	S.M. 2510B	<1	≤1	96.9	80-120	94.2	80-120	0.64	20	96.2	80-120

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Signed: 

Printed Name: Lorraine Archer

Date: 12/09/2014

Report ID: 20141209PWAAC72081